MATERIAL SAFETY DATA SHEET



27155

The Scotts Company

Peters Professional **Soluble Plant Food** 30-10-10 Orchid

Scotts-Sterra Horncultural Products Co

14111 Scottslawn Road Marysville, Ohio 43041 In Case of Emergency call 1-937-644-0011 (USA) For non-Emergency calls 1-937-644-0011 (USA)

1. MATERIAL IDENTIFICATION

Product Name

Peters Professional(R) Soluble Plant Food

Analysis

30-10-10 Orchid

Stock Number 27155

NFPA Hazard Ratings		0 Least
Health	2	1 S∦ght
Flammability	٥	2 Moderate 3 High
Reactivity	1	4 Severe

II. HAZARDOUS INGREDIENTS

		OSHA	ACGIH	
MATERIAL	CAS#	PEL	_TLV_	
Potassium Nitrate	7757-79-1	None	None	
(containing up to 5% Sodium Nitrate)	7631-99-4	None	None	
Monoammonium Phosphate	7722-76-1	None	None	
Monopotassium Phosphate	7778-77-0	None	None	
Urea	57-13-6	None	None	
Magnesium Sulfate	7487-88-9	None	None	
Boric Acid	10043-35-3	None	None	
Copper EDTA	14025-15-1	None	None	
Iron EDTA	15708-41-5	None	None	
Manganese EDTA	15375-84-5	None	None	
Sodium Molybdate	7631-95-0	5mg/m3	5mg/m3	
Zinc EDTA	14025-21-9	None	None	

The ACGIH Threshold Limit Values for musance (mert) dusts containing < 1% crystalline silica and no asbestos are. 10 mg/m3 total, 5 mg/m3 respirable

III. FIRST AID PROCEDURES

If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists Eyes Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink 1 to Ingestion

2 glasses of water, then induce repeated vomiting until vomit is clear. Call physician

Wash with plenty of soap and water Skin

Remove to fresh air Treat symptomatically Inhalation:

IV. HEALTH HAZARD INFORMATION

Summary of Risks

Prolonged or repeated direct contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat, and lungs. Prolonged exposure may cause weakness, depression, headache, mental impairment, anemia, methemoglobinemia, and kidney injury

Ingestion of product can cause severe gastrointestinal irritation, muscular weakness, and blue-unged skin (cyanosis) Infants and children are especially at risk for cyanosis. Ingestion of large amounts may result in death

A Russian study of 67 workers in an environment with high concentrations of urea found a high incidence of protein metabolism disturbances and chronic weight loss. Exposure levels were not reported

Tumorigenic, mutagenic, and reproductive effects of potassium nitrate and urea in laboratory animals are reported in the NIOSH Registry of Toxic Effects

Blue dye may cause temporary staming of skin

Medical conditions which may

Skin abrasions and sores.

be aggravated by contact

Inhalation of dust may aggravate asthma

Target Organs.

Skin, eyes, respiratory tract, gastrointestinal tract, and central nervous system.

Primary Entry Route(s).

Ingestion, inhalation

Chronic Effect(s):

Chronic exposure to mirates may cause weakness, depression, headache, blood changes (methemoglobinemia and anemia), and kidney injury (nephritis)

Acute Effect(s):

Excessive inhalation of dust may cause irritation and coughing Prolonged

skin contact with product may cause mild irritation

Ingredients Listed as a Carcinogen

1ARC Monographs No No NTP-OSHA No

V. PERSONAL PROTECTION AND PRECAUTIONS

Personal protective equipment

Goggles

None required for routine use as fertilizer High airborne dust levels or mists of product dissolved

in liquid may be irritating; use chemical goggles

Gloves.

None required for normal use If prolonged or repeated use irritates skin, use natural rubber

gloves

Respirator:

If airborne dust levels are high or irritation occurs, use NIOSH/MSHA approved respirator for dusts,

mists, and fumes to reduce exposures to acceptable levels

Workplace Considerations

Ventilation

Ventilation and personal protection are recommended whenever dust levels are high or

product does not remain intact

Safety Stations

Running water should be available in case material gets in eyes

VI. PHYSICAL HAZARD INFORMATION

Flammable Limits (% in Air) Extinguishing Media

N/A Water Color. Odor

Aqua-blue powder Slight yeasty odor

Auto Ignition Temperature.

N/A

Boiling Point. Solubility in H20 Decomposes on heating 3 5 lbs/gal

Flash Point (method):

Decomposes on heating

Specific Gravity.

(H20 = 1) 45 1-47 2 lbs/ft3

Vapor Pressure Evaporation Rate Not Known N/A

pΗ

5 4 (10% solution)

Reactivity

Stability: Hazardous Polymerization. Stable

Conditions to Avoid:

Will Not Occur

Extreme heat Contact with strong alkalies, oxidizers, and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and

magnesium. Strong alkalies and reducing agents Chlorine compounds.

Oxides of nitrogen, potassium, sulfur and phosphorous as well as ammonia,

Hazardous Decomposition Products:

biuret, cyanuric acid and cyanic acid.

Chemical Incompatibilities. Nitrates are inc

Nitrates are incompatible with strong alkalies and reducing agents, active metals (such as

aluminum and magnesium), ammonia, organic, and combustible materials.

Monammonium phosphate is incompatible with sodium hypochlorite.

Urea is incompatible with strong oxidizers, alkalies, sodium nitrate, and many chlorine

compounds (including bleach and other household cleaning products)

Unusual Fire, Explosion and Reactivity Hazards:

ds:

This product is comprised of materials which are oxidizers in their pure, unmixed forms. It will not burn but can provide oxygen for existing fires and cause combustible materials

to ignite explosively.

Material decomposes on heating to emit ammonia and toxic oxides of nitrogen, sulfur,

phosphorous, potassium as well as buiret, cyanuric acid and cyanic acid.

In Case of Fire: Evacuate area. Flood with water to cool containers. Apply water from a safe distance

to avoid splattering of molten material. Wear self-contained breathing apparatus to

fight large fires.

VII. REGULATORY INFORMATION

DOT Classification:

Not DOT regulated

VIII. STORAGE AND SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage

Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs, as well as household cleaning products. Wash hands with soap and water after handling product. Keep out of reach of children.

In case of spills

Avoid dusting or misting conditions during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate contamer and dispose. Keep spills away from drinking water supplies. After cleaning up spill, flush area with water.

Waste Management/Disposal

Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state, and local regulations.

Revised: #######

Date Issued #######

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